

**GROWTH OF HUMAN DENDRITIC CELLS FOR CANCER  
IMMUNOTHERAPY IN CLOSED SYSTEM USING MICROCARRIER BEADS**

**ABSTRACT OF THE DISCLOSURE**

5 A method of reproducibly generating dendritic cells is  
provided. Blood mononuclear cells is loaded into a cell  
culture container containing microcarrier beads therein.  
Tissue culture comprising the cells loaded in the container  
is incubated for a predetermined period. Nonadherent cells  
10 and cells adhered to the beads are separated. The method  
may further include preparing dendritic cell culture medium  
and transferring the dendritic cell culture medium to the  
container after the cells which are adhered to the beads  
are separated from the nonadherent cells. The tissue  
15 culture incubated for the predetermined time period may be  
washed to remove nonadherent cells. The beads may be  
allowed to settle and supernatant is expressed off. The  
container may comprise a gas permeable cell culture bag.

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